



**California State Fire Marshal**  
**National Fire Incident Reporting System**

Data as of: 03/19/2007 3:26:21PM

**FDID Range:**  
0 to No Upper Bound

**Incident Date Range:**  
01/01/2003 to 12/31/2006

**Incident Type:**  
111 to 123

### Automatic Fire Extinguisher System Operation, 2003-2006

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003									
	(Unspecified)								
		(Unspecified)	142	\$2,640,930	\$2,389,101	3	0	2	0
		Dry chemical system	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	10	\$10,600	\$5,000	3	0	0	0
		<b>Subtotal</b>	<b>153</b>	<b>\$2,651,530</b>	<b>\$2,394,101</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>
	Failed to Operate								
		Carbon dioxide (CO2) system	1	\$0	\$0	0	0	0	0
		Dry chemical system	11	\$242,300	\$214,200	0	0	0	0
		Other	4	\$1,000	\$1,100	0	0	0	0
		Other sprinkler system	2	\$33,000	\$32,000	0	0	0	0
		Undetermined	1	\$0	\$200	0	0	0	0
		Wet pipe sprinkler	15	\$703,300	\$113,650	0	0	0	0
		<b>Subtotal</b>	<b>34</b>	<b>\$979,600</b>	<b>\$361,150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Fire too small to Operate								
		(Unspecified)	3	\$250	\$0	0	0	0	0
		Carbon dioxide (CO2) system	2	\$600	\$0	0	0	0	0
		Dry chemical system	11	\$39,525	\$14,025	0	0	0	0
		Dry pipe sprinkler	5	\$5,500	\$550	0	0	0	0
		Halogen type system	1	\$4,000	\$0	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Other sprinkler system	2	\$1,100	\$0	0	0	0	0
		Undetermined	8	\$35,700	\$42,500	0	0	0	0
		Wet pipe sprinkler	166	\$366,666	\$281,792	3	0	4	0
		<b>Subtotal</b>	<b>201</b>	<b>\$453,341</b>	<b>\$338,867</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>0</b>
	Operated and Effective								
		(Unspecified)	4	\$23,000	\$5,600	0	0	0	0

## Automatic Fire Extinguisher System Operation, 2003-2006

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		Carbon dioxide (CO2) system	1	\$0	\$0	0	0	0	0
		Dry chemical system	9	\$5,350	\$53,100	0	0	0	0
		Dry pipe sprinkler	1	\$214,000	\$5,000	0	0	1	0
		Foam system	2	\$500	\$10,500	0	0	0	0
		Halogen type system	2	\$5,000	\$5,000	0	0	0	0
		Other	4	\$0	\$500	0	0	0	0
		Other sprinkler system	1	\$5,000	\$5,000	0	0	0	0
		Undetermined	1	\$25,000	\$0	0	0	0	0
		Wet pipe sprinkler	168	\$4,589,800	\$5,983,545	6	0	8	0
		<b>Subtotal</b>	<b>193</b>	<b>\$4,867,650</b>	<b>\$6,068,245</b>	<b>6</b>	<b>0</b>	<b>9</b>	<b>0</b>
	<b>Operated and NOT Effective</b>								
		Dry chemical system	2	\$38,000	\$15,500	0	0	0	0
		Dry pipe sprinkler	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	6	\$1,316,000	\$5,541,100	0	0	0	0
		<b>Subtotal</b>	<b>9</b>	<b>\$1,354,000</b>	<b>\$5,556,600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Operation of AES, other</b>								
		Dry chemical system	1	\$0	\$500	0	0	0	0
		Wet pipe sprinkler	5	\$70,400	\$25,200	0	0	0	0
		<b>Subtotal</b>	<b>6</b>	<b>\$70,400</b>	<b>\$25,700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Undetermined</b>								
		Dry chemical system	1	\$1,000	\$0	0	0	0	0
		Halogen type system	1	\$10,000	\$0	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Undetermined	253	\$4,377,215	\$637,541	3	0	6	2
		Wet pipe sprinkler	2	\$100	\$400	0	0	0	0
		<b>Subtotal</b>	<b>260</b>	<b>\$4,388,315</b>	<b>\$637,941</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>2</b>
<b>2003</b>	<b>Total</b>		<b>856</b>	<b>\$14,764,836</b>	<b>\$15,382,604</b>	<b>18</b>	<b>0</b>	<b>21</b>	<b>2</b>
<b>2004</b>	<b>(Unspecified)</b>								
		(Unspecified)	161	\$1,774,781	\$845,771	1	0	7	0
		Dry chemical system	2	\$1,000	\$2,000	0	0	0	0
		Dry pipe sprinkler	1	\$0	\$0	0	0	0	0
		Other	1	\$0	\$30	0	0	0	0
		Undetermined	3	\$600	\$65	0	0	1	0
		Wet pipe sprinkler	12	\$35,500	\$17,750	0	0	1	0

## Automatic Fire Extinguisher System Operation, 2003-2006

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		<b>Subtotal</b>	<b>180</b>	<b>\$1,811,881</b>	<b>\$865,616</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>0</b>
		<b>Failed to Operate</b>							
		(Unspecified)	1	\$0	\$0	0	0	0	0
		Carbon dioxide (CO2) system	1	\$20,000	\$0	0	0	0	0
		Dry chemical system	13	\$53,550	\$129,800	0	0	0	0
		Halogen type system	2	\$3,500	\$8,000	0	0	0	0
		Other	1	\$6,000	\$3,000	0	0	0	0
		Other sprinkler system	1	\$100	\$0	0	0	0	0
		Undetermined	4	\$2,500	\$1	0	0	0	0
		Wet pipe sprinkler	33	\$12,896,834	\$25,348,392	0	0	1	0
		<b>Subtotal</b>	<b>56</b>	<b>\$12,982,484</b>	<b>\$25,489,193</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
		<b>Fire too small to Operate</b>							
		(Unspecified)	4	\$6,050	\$520	0	0	0	0
		Dry chemical system	16	\$47,110	\$17,501	0	0	1	0
		Dry pipe sprinkler	5	\$11,400	\$8,600	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Other sprinkler system	1	\$0	\$500	0	0	0	0
		Undetermined	9	\$26,200	\$101	0	0	0	0
		Wet pipe sprinkler	221	\$525,957	\$190,299	0	0	7	0
		<b>Subtotal</b>	<b>257</b>	<b>\$616,717</b>	<b>\$217,521</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>
		<b>Operated and Effective</b>							
		(Unspecified)	6	\$48,500	\$23,000	0	0	0	0
		Dry chemical system	8	\$89,500	\$66,500	0	0	0	0
		Dry pipe sprinkler	3	\$0	\$2,500	0	0	0	0
		Halogen type system	1	\$1,000	\$1,000	0	0	0	0
		Other	3	\$2,500	\$500	0	0	0	0
		Other sprinkler system	4	\$5,000	\$1,500	0	0	0	0
		Undetermined	3	\$45,000	\$5,000	0	0	1	0
		Wet pipe sprinkler	243	\$3,785,462	\$5,130,001	1	0	9	0
		<b>Subtotal</b>	<b>271</b>	<b>\$3,976,962</b>	<b>\$5,230,001</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>0</b>
		<b>Operated and NOT Effective</b>							
		(Unspecified)	2	\$15,000	\$5,000	0	0	0	0
		Dry chemical system	9	\$550,000	\$475,500	0	0	0	0
		Undetermined	3	\$140,000	\$87,500	1	0	0	0
		Wet pipe sprinkler	7	\$2,204,000	\$612,000	0	0	0	0
		<b>Subtotal</b>	<b>21</b>	<b>\$2,909,000</b>	<b>\$1,180,000</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Automatic Fire Extinguisher System Operation, 2003-2006

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
<b>Operation of AES, other</b>									
		Wet pipe sprinkler	5	\$1,310,000	\$725,000	0	0	0	0
		<b>Subtotal</b>	<b>5</b>	<b>\$1,310,000</b>	<b>\$725,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Undetermined</b>									
		Carbon dioxide (CO2) system	2	\$75,000	\$100,000	0	0	0	0
		Dry chemical system	5	\$15,000	\$3,005	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Other sprinkler system	2	\$21,000	\$0	0	0	0	0
		Undetermined	216	\$6,188,002	\$1,210,032	0	0	1	0
		Wet pipe sprinkler	6	\$280,000	\$70,000	0	0	0	0
		<b>Subtotal</b>	<b>234</b>	<b>\$6,579,002</b>	<b>\$1,383,037</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>2004</b>		<b>Total</b>	<b>1,024</b>	<b>\$30,186,046</b>	<b>\$35,090,368</b>	<b>3</b>	<b>0</b>	<b>29</b>	<b>0</b>
<b>2005</b>									
<b>(Unspecified)</b>									
		(Unspecified)	265	\$2,163,279	\$1,250,224	3	0	4	1
		Dry chemical system	5	\$2,400	\$2,100	0	0	0	0
		Halogen type system	2	\$5,000	\$15,000	0	0	0	0
		Other	3	\$35,200	\$18,000	0	0	0	0
		Other sprinkler system	3	\$206,000	\$100,000	0	0	0	0
		Undetermined	3	\$1,500	\$0	0	0	0	0
		Wet pipe sprinkler	44	\$151,600	\$169,710	1	0	1	0
		<b>Subtotal</b>	<b>325</b>	<b>\$2,564,979</b>	<b>\$1,555,034</b>	<b>4</b>	<b>0</b>	<b>5</b>	<b>1</b>
<b>Failed to Operate</b>									
		(Unspecified)	2	\$82,000	\$10,500	0	0	0	0
		Carbon dioxide (CO2) system	1	\$1,500	\$1,500	0	0	0	0
		Dry chemical system	18	\$551,501	\$198,301	1	0	0	0
		Foam system	1	\$0	\$0	0	0	0	0
		Other	1	\$5,000	\$5,000	0	0	0	0
		Other sprinkler system	5	\$755,000	\$50,500	0	0	0	0
		Undetermined	5	\$251,000	\$100,500	0	0	0	1
		Wet pipe sprinkler	57	\$818,350	\$6,600,552	0	0	2	0
		<b>Subtotal</b>	<b>90</b>	<b>\$2,464,351</b>	<b>\$6,966,853</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>
<b>Fire too small to Operate</b>									
		(Unspecified)	3	\$300	\$1,000	0	0	0	0
		Dry chemical system	27	\$194,900	\$93,225	0	0	0	0

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		Dry pipe sprinkler	12	\$53,550	\$2,000	0	0	0	0
		Foam system	1	\$0	\$0	0	0	0	0
		Halogen type system	1	\$25	\$2,500	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Other sprinkler system	7	\$61,800	\$100,050	2	0	0	0
		Undetermined	2	\$5,000	\$0	0	0	0	0
		Wet pipe sprinkler	336	\$1,728,544	\$3,825,828	2	0	12	0
		<b>Subtotal</b>	<b>390</b>	<b>\$2,044,119</b>	<b>\$4,024,603</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>0</b>
	<b>Operated and Effective</b>								
		(Unspecified)	5	\$225,500	\$123,000	0	0	0	0
		Carbon dioxide (CO2) system	2	\$40,000	\$10,000	4	0	0	0
		Dry chemical system	18	\$351,750	\$211,000	2	0	5	0
		Dry pipe sprinkler	2	\$1,100	\$1,100	0	0	0	0
		Foam system	2	\$5,000	\$1,000	0	0	0	0
		Halogen type system	1	\$2,000	\$2,000	0	0	0	0
		Other	5	\$54,000	\$13,000	0	0	0	0
		Other sprinkler system	8	\$77,200	\$166,000	0	0	0	0
		Undetermined	4	\$28,000	\$18,000	0	0	0	0
		Wet pipe sprinkler	342	\$7,134,600	\$11,778,045	4	0	21	1
		<b>Subtotal</b>	<b>389</b>	<b>\$7,919,150</b>	<b>\$12,323,145</b>	<b>10</b>	<b>0</b>	<b>26</b>	<b>1</b>
	<b>Operated and NOT Effective</b>								
		Carbon dioxide (CO2) system	1	\$1,250,000	\$500,000	0	0	0	0
		Dry chemical system	5	\$430,000	\$110,500	0	0	0	0
		Other	1	\$75,000	\$75,000	0	0	0	0
		Wet pipe sprinkler	11	\$1,182,000	\$556,000	1	0	0	0
		<b>Subtotal</b>	<b>18</b>	<b>\$2,937,000</b>	<b>\$1,241,500</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Operation of AES, other</b>								
		Other	2	\$30,000	\$200,250	0	0	0	0
		Wet pipe sprinkler	2	\$620,000	\$210,000	0	0	2	0
		<b>Subtotal</b>	<b>4</b>	<b>\$650,000</b>	<b>\$410,250</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
	<b>Undetermined</b>								
		Dry chemical system	3	\$250	\$250	0	0	0	0
		Dry pipe sprinkler	2	\$6,000	\$6,000	0	0	0	0
		Halogen type system	3	\$545,000	\$285,000	0	0	0	0
		Other	1	\$5,000	\$20,000	0	0	0	0
		Undetermined	109	\$2,307,490	\$1,000,952	0	0	1	0

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2005		Wet pipe sprinkler	8	\$1,125,000	\$750,300	0	0	0	0
		<b>Subtotal</b>	<b>126</b>	<b>\$3,988,740</b>	<b>\$2,062,502</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
		<b>Total</b>	<b>1,342</b>	<b>\$22,568,339</b>	<b>\$28,583,887</b>	<b>20</b>	<b>0</b>	<b>48</b>	<b>3</b>
2006	(Unspecified)	(Unspecified)	171	\$1,721,643	\$661,623	0	0	0	0
		Dry chemical system	4	\$10,210	\$5,050	0	0	0	0
		Dry pipe sprinkler	1	\$25,000	\$1,200	0	0	0	0
		Other sprinkler system	1	\$300	\$200	0	0	0	0
		Undetermined	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	15	\$18,050	\$23,050	0	0	0	0
		<b>Subtotal</b>	<b>193</b>	<b>\$1,775,203</b>	<b>\$691,123</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Failed to Operate	Carbon dioxide (CO2) system	2	\$0	\$116,000	0	0	0	0
		Dry chemical system	5	\$1,500	\$2,200	0	0	0	0
		Dry pipe sprinkler	1	\$200	\$2,500	0	0	0	0
		Foam system	1	\$0	\$250	0	0	0	0
		Other	2	\$100,100	\$1,100	0	0	0	0
		Other sprinkler system	1	\$0	\$0	0	0	0	0
		Undetermined	3	\$252,000	\$6,025	0	0	0	0
		Wet pipe sprinkler	24	\$1,633,520	\$555,012	0	0	0	0
		<b>Subtotal</b>	<b>39</b>	<b>\$1,987,320</b>	<b>\$683,087</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Fire too small to Operate	(Unspecified)	2	\$10,500	\$15,000	0	0	0	0
		Carbon dioxide (CO2) system	2	\$1,500	\$3,000	0	0	0	0
		Dry chemical system	9	\$118,000	\$112,500	0	0	0	0
		Dry pipe sprinkler	9	\$11,200	\$24,265	0	0	0	1
		Other	2	\$90,000	\$10,000	0	0	0	0
		Other sprinkler system	2	\$2,000	\$5,000	0	0	0	0
		Undetermined	4	\$300	\$1,505	0	0	0	0
		Wet pipe sprinkler	260	\$820,905	\$1,303,389	0	0	6	0
		<b>Subtotal</b>	<b>290</b>	<b>\$1,054,405</b>	<b>\$1,474,659</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>
	Operated and Effective	(Unspecified)	5	\$32,500	\$16,000	0	0	0	0
		Carbon dioxide (CO2) system	1	\$5,000	\$2,000	0	0	0	0

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		Dry chemical system	3	\$5,700	\$1,400	0	0	1	0
		Dry pipe sprinkler	5	\$795,001	\$417,000	0	0	0	0
		Foam system	2	\$5,000	\$5,000	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Other sprinkler system	6	\$512,800	\$11,050	0	0	0	0
		Undetermined	1	\$0	\$5,000	0	0	0	0
		Wet pipe sprinkler	237	\$3,212,400	\$3,332,581	4	0	6	0
		<b>Subtotal</b>	<b>263</b>	<b>\$4,568,401</b>	<b>\$3,790,031</b>	<b>4</b>	<b>0</b>	<b>7</b>	<b>0</b>
	<b>Operated and NOT Effective</b>								
		Carbon dioxide (CO2) system	1	\$2,000	\$0	0	0	0	0
		Dry chemical system	1	\$550,000	\$1,000,000	0	0	0	0
		Other sprinkler system	2	\$20,000	\$1,000	0	0	0	0
		Wet pipe sprinkler	7	\$100,807,500	\$210,500	0	0	0	0
		<b>Subtotal</b>	<b>11</b>	<b>\$101,379,500</b>	<b>\$1,211,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Operation of AES, other</b>								
		Other	1	\$1,400,000	\$250,000	0	0	0	0
		Wet pipe sprinkler	1	\$200,000	\$80,000	0	0	0	0
		<b>Subtotal</b>	<b>2</b>	<b>\$1,600,000</b>	<b>\$330,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Undetermined</b>								
		Other sprinkler system	1	\$0	\$0	0	0	0	0
		Undetermined	55	\$4,607,352	\$1,058,073	1	0	3	0
		Wet pipe sprinkler	6	\$5,000	\$5,000	0	0	0	0
		<b>Subtotal</b>	<b>62</b>	<b>\$4,612,352</b>	<b>\$1,063,073</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>2006</b>	<b>Total</b>		<b>860</b>	<b>\$116,977,181</b>	<b>\$9,243,473</b>	<b>5</b>	<b>0</b>	<b>16</b>	<b>1</b>
	<b>Grand Total</b>		<b>4,082</b>	<b>\$184,496,402</b>	<b>\$88,300,332</b>	<b>46</b>	<b>0</b>	<b>114</b>	<b>6</b>

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.

## Automatic Fire Extinguisher System Operation, 2003-2006

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### Parameters:

**FDID Range:** 0 to No Upper Bound

**Incident Date Range:** 01/01/2003 to 12/31/2006

**Incident Type:** 111 to 123

### Selection Criteria:

{INCIDENTKEY.FDID}={?FDIDrange} and  
{INCIDENTKEY.IN\_STATUS}='V' and  
{INCIDENTKEY.IN\_DATE}={?IncidentDateRange} and  
  
{IN\_BASIC.IN\_TYPE}={?IncidentType}  
and {FIRE\_STRUCTURE.STR\_AESPRESNCE}='1'